Claims

- 1. (Currently Amended). An isolated protein, wherein the isolated protein comprises an amino acid sequence set forth as is SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, or SEQ ID NO:8, a fragment thereof, of a conservative substitution thereof a deletion thereof, an addition thereto, or a substitution thereto of less than 20% of the amino acid sequence, wherein the protein regulates an enzyme involved in the production of reactive oxygen intermediates.
- 2. (Currently Amended). The isolated protein or fragment thereof of Claim 1, further comprising a deletion thereof, an addition thereto, or a substitution thereto of less than 1% of the amino acid sequence set forth as SEQ ID NO: 4 a deletion thereof, an addition thereto, or a substitution thereto of less than 20% of the amino acid sequence.
- 3. (Currently Amended). The isolated protein or fragment thereof of Claim 1, further comprising a deletion thereof, an addition thereto, or a substitution thereto of less than 10% of the amino acid sequence.
- 4. (Currently Amended). The isolated protein thereof of Claim 1, wherein the isolated protein is capable of regulating regulates superoxide production.
- 5. (Currently Amended). The isolated protein thereof of Claim 4, wherein the superoxide production is regulated by an effect of the isolated protein on protein regulates a Nox enzyme.

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- 6. (Currently Amended). An isolated protein, wherein the isolated protein comprising an amino acid sequence set forth as is SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, or SEQ ID NO:8, a deletion thereof or an addition thereto of no more than about 20% of the amino acid sequence, or a conservative substitution thereof of less than 5% of the amino acids of SEQ ID NO: 4, wherein the conservative substitution comprises substitution of:
 - a) alanine, serine, or threonine for each other;
 - b) aspartic acid or glutamic acid for each other;
 - c) asparagine or glutamine for each other;
 - d) arginine or lysine for each other;
 - e) isoleucine, leucine, methionine, or valine for each other; and,
- f) phenylalanine, tyrosine, or tryptophan for each other wherein the protein regulates an enzyme involved in the production of reactive oxygen intermediates.
 - 7-20. (Canceled).
- 21. (Currently Amended). A composition comprising the isolated protein, the fragment thereof, of the conservative substitution thereof of Claim 1 and a pharmaceutically acceptable carrier.
 - 22-23. (Canceled).

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- 24. (New) The isolated protein of claim 1, comprising an amino acid sequence set forth as SEQ ID NO: 4.
- 25. (New) The isolated protein of claim 1, comprising an amino acid sequence set forth as SEQ ID NO: 6.
- 26. (New) The isolated protein of claim 1, comprising an amino acid sequence set forth as SEQ ID NO: 8.
- 27. (New) The isolated protein of claim 1, comprising an amino acid sequence set forth as SEQ ID NO: 2.